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L1: Entry 8 of 8 File: DWPI Dec 15, 1988

DERWENT-ACC-NO: 1989-035316
DERWENT-WEEK: 198905

TITLE: Optical recording medium for e.g. external computer memory - contains phthalocyanine series dye in recording layer on transport base plate

PATENT-ASSIGNEE:

ASSIGNEE	CODE
TOYO INK MFG CO	TOXW

PRIORITY-DATA: 1987JP-0143543 (June 9, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 63307987 A	December 15, 1988		005	
JP 91078074 B	December 12, 1991		000	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 63307987A	June 9, 1987	1987JP-0143543	
JP 91078074B	June 9, 1987	1987JP-0143543	

INT-CL (IPC): B41M 5/26; C09B 47/12; G11B 7/24

ABSTRACTED-PUB-NO: JP 63307987A
BASIC-ABSTRACT:

Optical recording medium contains a phthalocyanine series dye of formula (I) in a recording layer formed on a transparent base plate. in (I), Pc = phthalocyanine gp.; M = metal atom or central nucleus of metal oxide or metal halide; A = -COO-, -CH2NR'-, -CH2NHCOCH2NH-, -SO2NR'- or -CONR'- or bonding valency; R' = H or 1-20C opt. satd. alkyl; m and n = 1-4; R1 and R2 = H, opt. substd. alkyl or they combine to form a heterocyclic contg. at least an N atom.

USE/ADVANTAGE - Useful for recording information e.g. external memory of computer, image, sound etc. Recording medium has information added with a laser beam. The recording medium has absorption and reflectance in an oscillation range of a semiconductor laser and is stable chemically and physically. The recording medium is produced by coating.

In an example a soln. consisting of 2.4 pts. wt. phthalocyanine deriv. of formula (I: M = VO, A = -SO2NH-, R1 = R2 = C2H5, n = 3 and m = 4) and 97.6 pts. wt. chloroform was dripped on a base plate of acrylic resin and the base plate was rotated at a speed of 1500 rpm for 15 sec. The base plate was dried at 45 deg.C for 10 min. to obtain a recording medium. The thickness of the recording layer was 1200 angstrom and had max. absorption wavelength, 740 nm, reflectance to lights of 830 nm, 28% at the surface side of the thin film of the phthalocyanine deriv. and 21% through the base

L1: Entry 4 of 8 File: JPAB Dec 15, 1988

PUB-NO: JP363307987A
DOCUMENT-IDENTIFIER: JP 63307987 A
TITLE: OPTICAL RECORDING MEDIUM

PUBN-DATE: December 15, 1988

INVENTOR-INFORMATION:

NAME	COUNTRY
MIYAZAKI, SHUJI	
SAKAMOTO, MARE	
EHASHI, SHIGEYUKI	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
TOYO INK MFG CO LTD	

APPL-NO: JP62143543
APPL-DATE: June 9, 1987

INT-CL (IPC): B41M 5/26; C09B 47/12; C09B 47/24; G11B 7/24

ABSTRACT:

PURPOSE: To obtain an optical recording medium having excellent characteristics and being advantageous on an economical basis, by providing a recording layer comprising a specified phthalocyanine coloring matter on a transparent substrate.

CONSTITUTION: A recording layer comprising a phthalocyanine coloring matte(of formula 1 is provided on a transparent substrate. In formula 1, Pc is a phthalocyanine residue, M is a metal or a nucleus of a metallic oxide or halide, A is -COO-, -CH2NR'-,-CR2NHCOCH2NH-, -SO2NR'- or -CONR'-(where R' is hydrogen or 1∼20C satd. or unsatd alkyl), each of m and n is independently an integer of 1∼4, and each of R1 and R2 is independently hydrogen or a substd. or unsubstd. alkyl, or R1 and R2 to form a heterocyclic ring containing at least nitrogen atom. Fixation of the recording layer comprising the phthalocyanine coloring matter onto the transparent substrate is most preferably performed by a coating method.

1 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1989:584263 CAPLUS
DN 111:184263
TI Optical recording media with recording layer containing phthalocyanine derivative dye
IN Miyazaki, Shuji; Sakamoto, Mare; Ehashi, Shigeyuki
PA Toyo Ink Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM B41M005-26
ICS C09B047-12; C09B047-24; G11B007-24
CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63307987	A2	19881215	JP 1987-143543	19870609
	JP 03078074	B4	19911212		
PRAI	JP 1987-143543		19870609		

AB Optical recording media have, on a transparent substrate, a recording layer contg. a phthalocyanine type dye of the formula MZ[Z1(CH2)mNRR1]n [I; R, R1 = H (substituted) alkyl, R and R1 may form a heterocyclic ring; Z = phthalocyanine residue; Z1 = CO2, CH2NR2, CH2NHCOCH2NH, SO2NR2, CONR2 (R2 = H, C1-20 satd. or unsatd. alkyl); M = center nucleus of a metal atom, metal oxide or halide; m, n = 1-4]. The optical media are capable of addnl. recording using focussed semiconductor laser beams and useful for external memories of computers and recording of images and voices. Thus, an acrylic resin substrate was coated with I (R, R1 = Et; Z1 = SO2NH; M = VO; m = 3; n = 4) to give an optical recording disk, which showed high sensitivity in recording and good stability in reading by using a laser beam (830 nm).
ST optical recording medium phthalocyanine deriv
IT Recording materials
(optical, with recording layer contg. phthalocyanine deriv. dye)
IT 122201-16-5 122918-82-5 122918-83-6 122918-84-7 122918-85-8
122918-86-9 122918-87-0 122918-88-1 122918-89-2 122946-07-0
122946-08-1 122946-09-2 123274-36-2 123274-38-4 **123274-41-9**
RL: USES (Uses)
(optical recording materials with recording layer contg.)

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L1: Entry 2 of 2 File: DWPI Mar 27, 1985

DERWENT-ACC-NO: 1985-112815
DERWENT-WEEK: 198519

TITLE: Conc. metal-contg. phthalocyanine dye solns. prepn. - dissolving dye in alcohol and/or cellosolve

PATENT-ASSIGNEE:

ASSIGNEE	CODE
HODOGAYA CHEM IND CO LTD	HODO

PRIORITY-DATA: 1983JP-0160290 (September 2, 1983)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 60053566 A	March 27, 1985		003	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 60053566A	September 2, 1983	1983JP-0160290	

INT-CL (IPC): C09B 47/26; C09B 67/44

ABSTRACTED-PUB-NO: JP 60053566A
BASIC-ABSTRACT:

Conc. soln. of dye is prepd. by dissolving metal-contg. phthalocyanine dye of formula (I) (where Pc is metal-contg. phthalocyanine gp., R1 is H or 1-4C lower alkyl contg. at least one OH, R2 is 10-12C aliphatic hydrocarbon residue or their mixt., R3 is H, lower alkyl or OH, R4 and R5 are independently H or lower alkyl, R6 is lower alkyl or alkoxy, m = 1-2, n = 2-3 and (m+n) = 4) in alcohol and/or cellosolve to a high concn.

ADVANTAGE - The conc. soln. is stable and does not degrade after exposure to high temp. and high humidity or to high temp. and low humidity for a long time.

In an example, Cu phthalocyanine dye of formula (II) (where R is a mixt. compri sing 44% C12H25 and 56% C10H21) was dissolved in 1 : 4 mixt. of phenyl cellosolve and benzyl alcohol to provide 50% concn. soln. An ink compsn. for ball-pointed pen was formulated by blending 20 g Highlac No. 111 available from HITB, 1 g polyvinyl pyrrolidone, 40 g benzyl alcohol, 10 g phenyl cellosolve, 15 g Cu phthalocyanine dye, 6 g Spilon Violent available from HODO and 9 g Spilon Blue C-RH available from HODO and charged into a ball-point pen and tested. The ink compsn. showed good writing performance after storage at 60 deg. C and relative humidity of 80 % for 7 weeks.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CONCENTRATE METAL CONTAIN PHTHALOCYANINE DYE SOLUTION PREPARATION DISSOLVE DYE ALCOHOL CELLOSOLVE

WEST

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L9: Entry 7 of 7 File: JPAB Mar 27, 1985

PUB-NO: JP360053566A
DOCUMENT-IDENTIFIER: JP 60053566 A
TITLE: CONCENTRATED DYE SOLUTION

PUBN-DATE: March 27, 1985

INVENTOR-INFORMATION:

NAME	COUNTRY
SUGIURA, HIROYUKI	
NISHINO, TOMOYOSHI	
KOBAYASHI, TOSHIMI	
NITSUTA, TOMOYUKI	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
HODOGAYA CHEM CO LTD	

APPL-NO: JP58160290
APPL-DATE: September 2, 1983

US-CL-CURRENT: 540/133
INT-CL (IPC): C09B 47/26; C09B 67/44

ABSTRACT:

PURPOSE: To obtain the titled solution of high stability with time, for use in ball point pen, etc., by dissolving, in an alcohol and/or cellosolve solvent, specific sulfonated metal-contg. phthalocyanine dye amine adduct as the coloring agent to high concentration.

CONSTITUTION: The objective solution can be obtained by dissolving to high concentration (e.g., 50wt%) (A) a metal-contg. phthalocyanine dye of formula I (Pc is metal-contg. phthalocyanine; R1 is H, or OH group-contg. 1∼4C alkyl; R2 is 10∼20C aliphatic hydrocarbon residue; R3 is H, lower alkyl or OH; R4 and R5 are each H or lower alkyl; R6 is lower alkyl or alkoxy; m is 1∼2; n is 2∼5; m+n=4) (e.g., copper phthalocyanine dye of formula II) in (B) an alcohol and/or cellosolve solvent (e.g., mixed solvent consisting of phenyl cellosolve and benzyl alcohol in a weight ratio 1/4).

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L10	(l1 or l6) same l4	10	L10
L9	(L1 or l2) same (phthalocyanine)	7	L9
L8	(L1 or l2) and (phthalocyanine)	73	L8
L7	L6 and l4	97	L7
L6	(((co or mixed or mixture) near5 solvent$1) or cosolvent) with (((benzyl or fluorinated) near2 alcohol) or (acetic near2 acid) or vinegar or tetrafluoropropanol)	7278	L6
L5	L4 and l3	0	L5
L4	((optical or laser or information) near5 (medium or media or disk$1 or disc$1))	314508	L4
L3	L2 and l1	50	L3
L2	(((co or mixed) near5 solvent$1) or cosolvent) with (((benzyl or fluorinated) near2 alcohol) or (acetic near2 acid) or vinegar or tetrafluoropropanol)	2459	L2
L1	(first near5 solvent$1) with (((benzyl or fluorinated) near2 alcohol) or (acetic near2 acid) or vinegar or tetrafluoropropanol)	376	L1

END OF SEARCH HISTORY